

PATENT COOPERATION TREATY

To: LEE Kwang -Yeon LEE & KIM, 5th Floor, New-Seoul Bldg. 828-8, Yoksam 1-Dong, Kangnam-Ku 135-935 Seoul Republic of Korea		<h2 style="margin: 0;">PCT</h2> <p style="margin: 5px 0;">WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY</p> <p style="margin: 5px 0;">(PCT Rule 43bis.1)</p>	
Date of mailing (day/month/year) 19 April 2006 (19.04.2006)		FOR FURTHER ACTION See paragraph 2 below	
Applicant's or agent's file reference FP05058	International application No. PCT/KR 2005/002758	International filing date (day/month/year) 19 August 2005 (19.08.2005)	Priority Date (day/month/year) -----
International Patent Classification (IPC) or both national classification and IPC A47L 9/04 (2006.01)			
Applicant <div style="text-align: center;">LG ELECTRONICS INC.</div>			

1. This opinion contains indications relating to the following items:

<input checked="" type="checkbox"/>	Cont. No. I	Basis of the opinion
<input type="checkbox"/>	Cont. No. II	Priority
<input type="checkbox"/>	Cont. No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/>	Cont. No. IV	Lack of unity of invention
<input checked="" type="checkbox"/>	Cont. No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input type="checkbox"/>	Cont. No. VI	Certain documents cited
<input type="checkbox"/>	Cont. No. VII	Certain defects in the international application
<input type="checkbox"/>	Cont. No. VIII	Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/ AT <div style="text-align: center;">Austrian Patent Office</div> Dresdner Straße 87, A-1200 Vienna Facsimile No. +43 / 1 / 534 24 / 535	Authorized officer <div style="text-align: center;">BABUREK G.</div> Telephone No. +43 / 1 / 534 24 / 352
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Continuation No. I

Basis of the opinion

1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which it was filed.

Continuation No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims 2-11	YES
	Claims 1	NO
Inventive step (IS)	Claims 2-11	YES
	Claims 1	NO
Industrial applicability (IA)	Claims 1-11	YES
	Claims ----	NO

2. Citations and explanations:

The following documents have been cited in the Search Report:

D1: DE19502867 A1
D2: US4426751 A
D3: US4817233 A

Documents D1 – D3 disclose a suction head of a vacuum cleaner (D3 a scrubber) for being installed at a front end of a suction path for sucking substances by a vacuum pressure generated by a suction motor, and having a suction hole for sucking the substances on its bottom, according to the characteristic features of claim 1. These documents also show a brush installed on the suction hole of the suction head that is able to rotate and a hair tunnel formed on the suction head that does not interfere with the brush, according to the characteristic features of claim 1.

Therefore the subject matter of claim 1 is not novel with respect to the state of the art and does not involve an inventive step according to each one of the cited documents.

As none of the documents D1 - D3 discloses a hair tunnel, according to the characteristic features of claim 2, that is linked to the front end of the suction path through a path isolated from the path for linking the suction hole to the front end of the suction path in the suction head, or a sweeper according to the characteristic features of claim 5, it has to be considered that the subject matter of claims 2 and 5 is novel with respect to any of the state of the art documents and involves an inventive step according to each one of these documents.

International application No.
PCT/KR 2005/002758

Industrial applicability is given.